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(54) CALCIUM PHOSPHATE CEMENT, ITS USE AND METHOD OF MANUFACTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide rapidly hardening calcium phosphate cement.

SOLUTION: The cement comprises calcium phosphate particles with a particle diameter of 0.05-100 μ m having whiskers with width of 1-100 nm and length of 1-1,000 nm or microfine crystals on their surfaces, which are prepared by mixing calcium phosphate powder or particles with a wetting agent and controlling the growth of whiskers or microfine crystals on their surfaces.

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This invention relates to calcium phosphate cement.

The preferred process of manufacture includes; combining the powder of calcium phosphate with the water solution. This calcium phosphate cement comes into the paste, and this paste is non-dispersive material used for the filing material for teeth.

The powder of calcium includes such as calcium dihydrogenphosphate, hydrate-calcium dihydrogenphosphate, acidic-calcium pyrophosphate, anhydrous-calcium hydrogen phosphate, calcium metaphosphate.

In the preferred embodiment, the diameter of the particle of the calcium is about 0.2-80 μm , preferably 0.5-50 μm .

On the other hand, the water solution comprises the phosphate ion, calcium ion, fluorine ion as the accelerator.